

Specification

[003] The following amendment corrects the reference number for the bundle from 430 to 440 so that it is in agreement with the other parts of the specification. Support for the amendment is found at paragraph [0029]. No new matter is added.

[004] In the Specification, please amend paragraph [0030] as shown below:

[0030] The program data 307 also includes a bundle table 406 and write-watch information 408. The write-watch information 408 contains information describing the cards that have been written to since the garbage collection process was last performed. The bundle table 406 maintains information for each bundle (e.g., bundle ~~430~~ 440). There may be one bundle table for the entire heap, multiple bundle tables based on the number of generations, multiple bundle tables based on the heap size, or the like. In one implementation, the size of memory associated with each bundle is a page of card table memory. As will be explained later in conjunction with FIGS. 6 and 7, the bundle table 406 is updated when the ephemeral garbage collection process is executed. It is updated based on the write-watch information 408 that is maintained by the write-watch mechanism in the memory manager 222. In contrast with prior attempts with implementing bundles, the present ephemeral garbage collection does not introduce the

doubling of overhead (e.g., statement 108 shown in FIG. 1) when maintaining the bundle table 406. Thus, the present ephemeral garbage collection process scales to accommodate large heap sizes without adversely impacting the execution time of programs.